***# 2. Obtain a video tape of one of your school sports teams in Action. Create a play by play description of a short segment of the videotape, explaining how momentum and kinetic energy change during impacts that take place in the segment.***

***Click Link***

<http://www.youtube.com/watch?v=s30gSd3dHS0&feature=related>

This was not only a video that displays reaction, and change, but one the I found very interesting, so therefore I choose it to do this assignment on.

In the first few seconds of the video, you can see the soccer ball is not moving, it has 0 velocity. The force acting upon the ball is the soccer players foot, which causes the ball to suddenly change momentum, the momentum has increased dramatically. This was physical kinetic energy acting on the ball, causing it to go from o to whatever as the ball flies across the field. The other player from across the field chanes the direction of the ball by physical kinetic energy exerted by his head, therefore slowing down the ball as the momentum decreases. Relatively the same thing back and forth as it constantly changes momentum and velocity until it’s back at 0 when the ball I finally kicked into the net. Then it has no momentum, and the only force acting on it is the weight of the earth.